

**Table I. Reference table for new L4 requirements for Subscription Service and suggested links.**

<b>L4 ID</b>	<b>L4 Text</b>	<b>Rel. B RBR ID</b>	<b>RBR Text</b>
<a href="#">C- CSS- 40270</a>	<a href="#">The Subscription Service shall accept the following requests from subscribers : submit new subscriptions, update subscriptions, and cancel subscriptions.</a>	DADS0 498#B	Each designated DADS shall receive standing and retrospective product orders from the IMS.
		DADS0 500#B	Each DADS shall receive changes to standing orders from the IMS.
<a href="#">C- CSS- 40280</a>	<a href="#">The Subscription Service shall accept the following requests from event producer : register new events, update events, cancel events, and trigger events.</a>	DADS0 498#B	Each designated DADS shall receive standing and retrospective product orders from the IMS.
		DADS0 500#B	Each DADS shall receive changes to standing orders from the IMS.
<a href="#">C- CSS- 40290</a>	<a href="#">The Subscription Service shall provide the capability to notify via direct program interface when the subscriber specified action has been taken.</a>	DADS1 210#B	Each DADS shall prepare, for output to the collocated PGS, data availability notices.
		DADS1 020#B	Each DADS shall generate data retrieval status to acknowledge the receipt of a product order. The data retrieval status shall indicate the acceptance or rejection of the request. In the event of rejection, the status shall contain an indication of the reason for rejection (e.g., distribution parameters missing, data not present or unreadable).
		DADS0 540#B	Each DADS shall notify the PGS of the receipt of non-EOS data sets required for Standard Product production.
		DADS0 550#B	Each DADS shall notify the PGS of the receipt of EOS data sets required for Standard Product production (e.g., data received from non-collocated DADS).
<a href="#">C- CSS- 40300</a>	<a href="#">The Subscription Service shall provide the capability to notify subscriber via email upon occurrence of the event if no action has been specified.</a>	DADS1 210#B	Each DADS shall prepare, for output to the collocated PGS, data availability notices.
		DADS1	Each DADS shall generate data retrieval status to acknowledge the

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		020#B	receipt of a product order. The data retrieval status shall indicate the acceptance or rejection of the request. In the event of rejection, the status shall contain an indication of the reason for rejection (e.g., distribution parameters missing, data not present or unreadable).
		DADS0 540#B	Each DADS shall notify the PGS of the receipt of non-EOS data sets required for Standard Product production.
		DADS0 550#B	Each DADS shall notify the PGS of the receipt of EOS data sets required for Standard Product production (e.g., data received from non-collocated DADS).
C- CSS- 40310	<u>The Subscription Service shall provide the capability to notify directly to a program interface upon occurrence of the event if no action has been specified.</u>	DADS1 210#B	Each DADS shall prepare, for output to the collocated PGS, data availability notices.
		DADS1 020#B	Each DADS shall generate data retrieval status to acknowledge the receipt of a product order. The data retrieval status shall indicate the acceptance or rejection of the request. In the event of rejection, the status shall contain an indication of the reason for rejection (e.g., distribution parameters missing, data not present or unreadable).
C- CSS- 40320	<u>The Subscription Service shall allow subscriber to specify the day of week to be notified for weekly time interval events.</u>	DADS0 540#B	Each DADS shall notify the PGS of the receipt of non-EOS data sets required for Standard Product production.
		DADS0 550#B	Each DADS shall notify the PGS of the receipt of EOS data sets required for Standard Product production (e.g., data received from non-collocated DADS).
		DADS1 210#B	Each DADS shall prepare, for output to the collocated PGS, data availability notices.
		DADS1 020#B	Each DADS shall generate data retrieval status to acknowledge the receipt of a product order. The data retrieval status shall indicate the acceptance or rejection of the request. In the event of rejection, the status shall contain an indication of the reason for rejection (e.g., distribution parameters missing, data not present or unreadable).

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<a href="#">C-CSS-40330</a>	<a href="#">The Subscription Service shall allow subscriber to specify the day of month to be notified for monthly time interval events.</a>	DADS0540#B	Each DADS shall notify the PGS of the receipt of non-EOS data sets required for Standard Product production.
		DADS0550#B	Each DADS shall notify the PGS of the receipt of EOS data sets required for Standard Product production (e.g., data received from non-collocated DADS).
		DADS1210#B	Each DADS shall prepare, for output to the collocated PGS, data availability notices.
		DADS1020#B	Each DADS shall generate data retrieval status to acknowledge the receipt of a product order. The data retrieval status shall indicate the acceptance or rejection of the request. In the event of rejection, the status shall contain an indication of the reason for rejection (e.g., distribution parameters missing, data not present or unreadable).
<a href="#">C-CSS-40340</a>	<a href="#">The Subscription Service shall provide the capability for authorized users to delete all stored Subscription of a user</a>	DADS0500#B	Each DADS shall receive changes to standing orders from the IMS.
<a href="#">C-CSS-40350</a>	<a href="#">The Subscription Service shall allow events to be triggered asynchronously.</a>	IMS-0740#B	The IMS shall provide the capability for users to generate and update requests for one-time orders or standing orders for the DADS to distribute DADS archive holdings to include, at a minimum, Standard Products, Standard Product software, EOC historical data, spacecraft housekeeping and ancillary data, and engineering data.
		IMS-0920#B	The IMS shall provide the capability for users to construct and submit standing orders and one-time requests for processing of ECS data by pre-existing processes, which shall contain the following information at a minimum: a. Requester identification b. Algorithm input requirements c. Text description of need for processing d. Level 0-4 data set/subset e. Required time of generation f. Requested priority for product processing

L4 ID	L4 Text	Rel. B RBR ID	RBR Text
			g. Resulting product type h. Processing parameters
		IMS-1080#B	The IMS shall accept requests for acquisition of data to be processed one time or as standing orders.
<a href="#">C-CSS-40360</a>	<a href="#">The Subscription Service shall provide acknowledgment of receipt of a request after the request is submitted.</a>	DADS0540#B	Each DADS shall notify the PGS of the receipt of non-EOS data sets required for Standard Product production.
		DADS0550#B	Each DADS shall notify the PGS of the receipt of EOS data sets required for Standard Product production (e.g., data received from non-collocated DADS).
		DADS1210#B	Each DADS shall prepare, for output to the collocated PGS, data availability notices.
		DADS1020#B	Each DADS shall generate data retrieval status to acknowledge the receipt of a product order. The data retrieval status shall indicate the acceptance or rejection of the request. In the event of rejection, the status shall contain an indication of the reason for rejection (e.g., distribution parameters missing, data not present or unreadable).
<a href="#">C-CSS-40370</a>	<a href="#">The Subscription Service shall provide a mechanism to obtain state of the request (pending/ in progress/ completed)</a>	DADS0927#B	Each DADS shall generate and send to SMC reports of the status of the distribution of data.
<a href="#">C-CSS-40380</a>	<a href="#">The Subscription Service shall provide a mechanism to obtain the operation status upon completion. (succeeded/ failed)</a>	DADS0927#B	Each DADS shall generate and send to SMC reports of the status of the distribution of data.
<a href="#">C-CSS-40390</a>	<a href="#">The Subscription Service shall provide a mechanism that allows the Subscription Service to be restarted and any requests that were in progress be restarted</a>	IMS-0250#B	The IMS shall provide required maintenance of the IMS data bases, to include at a minimum: a. Capability to restructure the data base b. Capability to interrupt a maintenance session and restart the session without loss of information
<a href="#">C-</a>	<a href="#">The Subscription Service shall allow subscribers to</a>	IMS-	The IMS shall allow users to formulate a data order based on any

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<a href="#">CSS-40400</a>	<a href="#">qualify a subscribable event based on a set of attributes specified by the event producer.</a>	0770#B	combination of the inventory core metadata attributes and geophysical parameters at a minimum.
<a href="#">C-CSS-40410</a>	<a href="#">The Subscription Service shall provide the capability to store subscriptions and event types persistently.</a>	DADS0660#B	Each DADS shall maintain a database of orders which shall include at a minimum: priorities, distribution directions, and all other details necessary to process orders including standing and multi-DADS orders.
<a href="#">C-CSS-40420</a>	<a href="#">The Subscription Service shall validate subscriber's privileges to verify that the subscriber is authorized to perform the request.</a>	IMS-0760#B	The IMS shall access distribution criteria for each data product and data product software and compare the distribution criteria to the requester's data access rights to verify that the data and software can be distributed as requested.

**Table II. Add table for new L4 requirements for Subscription Service.**

L4 ID	object_key	rel	req_type	req_status	verification_s_status	verification_method	L4 Text
<a href="#">C-CSS-40270</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall accept the following requests from subscribers : submit new subscriptions, update subscriptions, and cancel subscriptions.</a>
<a href="#">C-CSS-40280</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall accept the following requests from event producer : register new events, update events, cancel events, and trigger events.</a>
<a href="#">C-CSS-40290</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall provide the capability to notify via direct program interface when the subscriber specified action has been taken.</a>
<a href="#">C-CSS-40300</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall provide the capability to notify subscriber via email upon occurrence of the event if no action has been specified.</a>
<a href="#">C-CSS-40310</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall provide the capability to notify directly to a program interface upon occurrence of the event if no action has been specified.</a>
<a href="#">C-CSS-40320</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall allow subscriber to specify the day of week to be notified for weekly time interval events.</a>
<a href="#">C-CSS-40330</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall allow subscriber to specify the day of month to be notified for monthly time interval events.</a>
<a href="#">C-CSS-40340</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall provide the capability for authorized users to delete all stored Subscription of a user</a>
<a href="#">C-CSS-40350</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall allow events to be triggered asynchronously.</a>

L4 ID	object_key	rel	req_type	req_status	verification_s_status	verification_method	L4 Text
<a href="#">C-CSS-40360</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall provide acknowledgment of receipt of a request after the request is submitted.</a>
<a href="#">C-CSS-40370</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall provide a mechanism to obtain state of the request (pending/ in progress/ completed)</a>
<a href="#">C-CSS-40380</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall provide a mechanism to obtain the operation status upon completion. (succeeded/ failed)</a>
<a href="#">C-CSS-40390</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall provide a mechanism that allows the Subscription Service to be restarted and any requests that were in progress be restarted</a>
<a href="#">C-CSS-40400</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall allow subscribers to qualify a subscribable event based on a set of attributes specified by the event producer.</a>
<a href="#">C-CSS-40410</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall provide the capability to store subscriptions and event types persistently.</a>
<a href="#">C-CSS-40420</a>	<a href="#">new</a>	<a href="#">B0</a>	<a href="#">functional security</a>	<a href="#">approved</a>	<a href="#">unverified</a>	<a href="#">test</a>	<a href="#">The Subscription Service shall validate subscriber's privileges to verify that the subscriber is authorized to perform the request.</a>